

FIG.1A

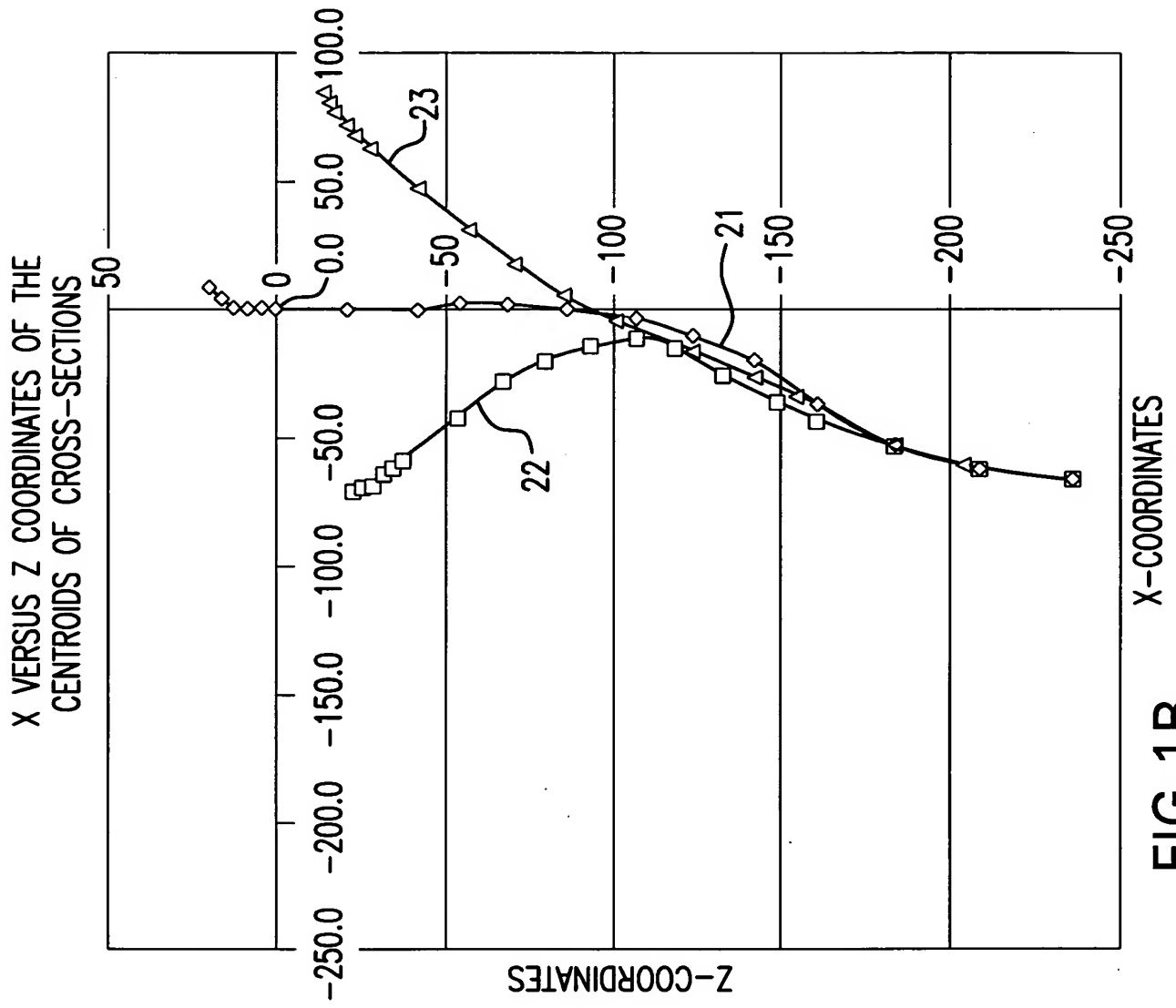


FIG.1B

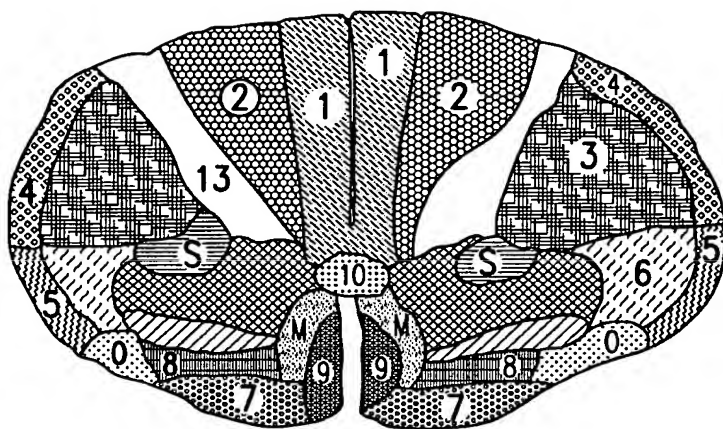


FIG. 2A

1. FASCICULUS GRACILIS
2. FASCICULUS CUNEATUS
3. CORTICOSP + RUBROSP. TRACTS
4. DORSAL SPINO-CEREBELLAR
5. VENTRAL SPINO-CEREBELLAR
6. LAT. SPINOTHALAMIC TR.
7. ANT. SPINOTHAL TR.
8. TECTOSPINAL LATERAL + VESTIBULOSPINAL TRACTS
9. ANTERIOR CORTICOSP TR. RETICULO SP.
10. ANTERIOR WHITE COMMISSURE
11. VENTRAL GRAY
- M MEDIAL LONGITUDINAL FASCICULUS
- O SPINO-OLIVARY TR.
- R RETICULO SPINAL FIBERS
- S INTERMEDIOLATERAL CELL COLUMN (DESCENDING AUTONOMIC FIBERS)

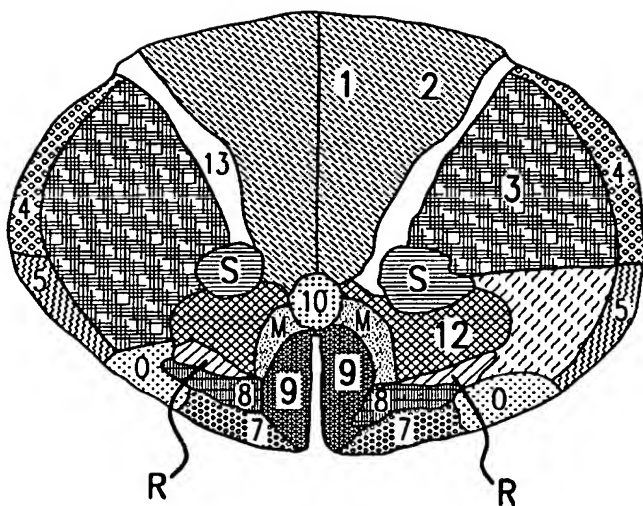


FIG. 2B

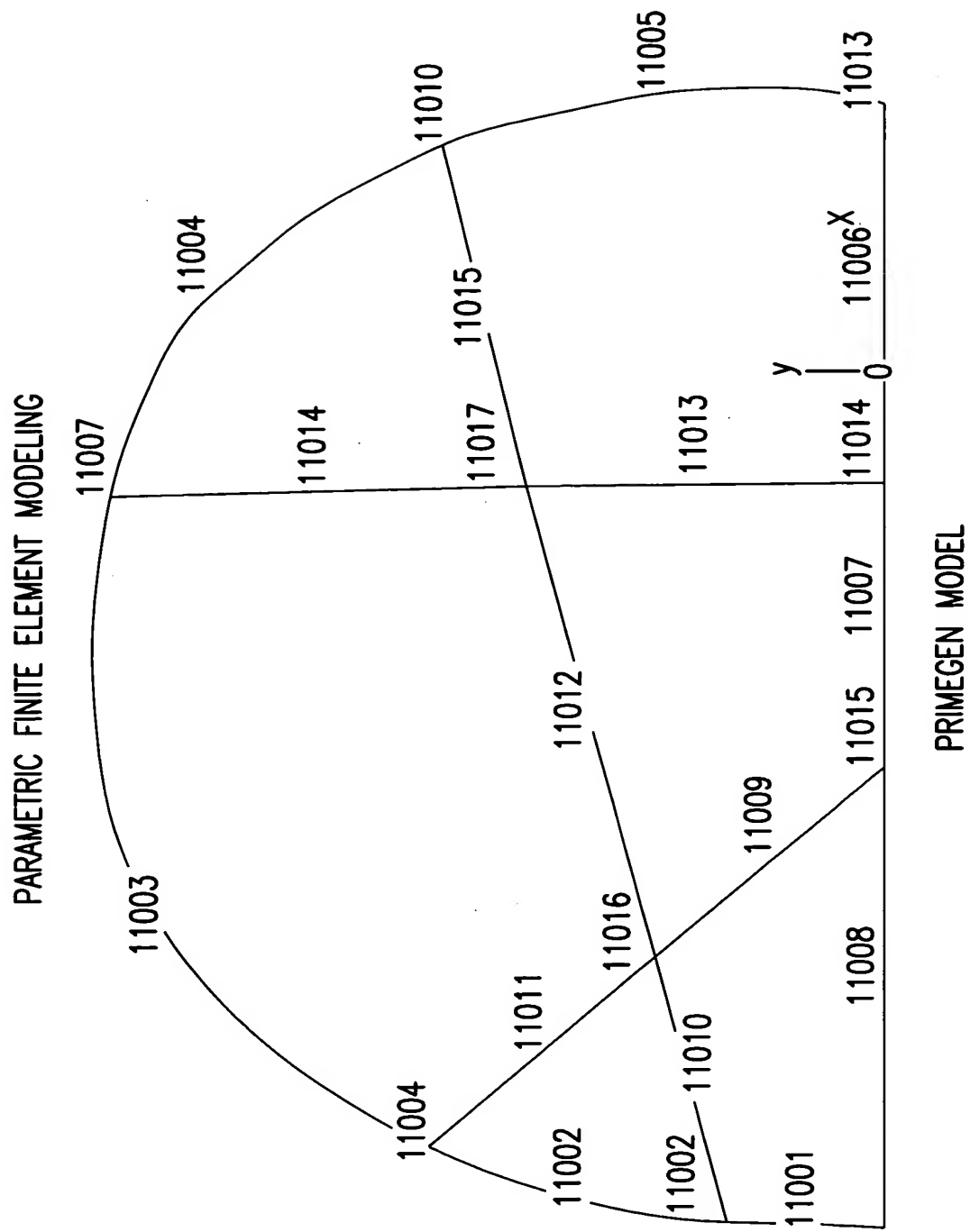
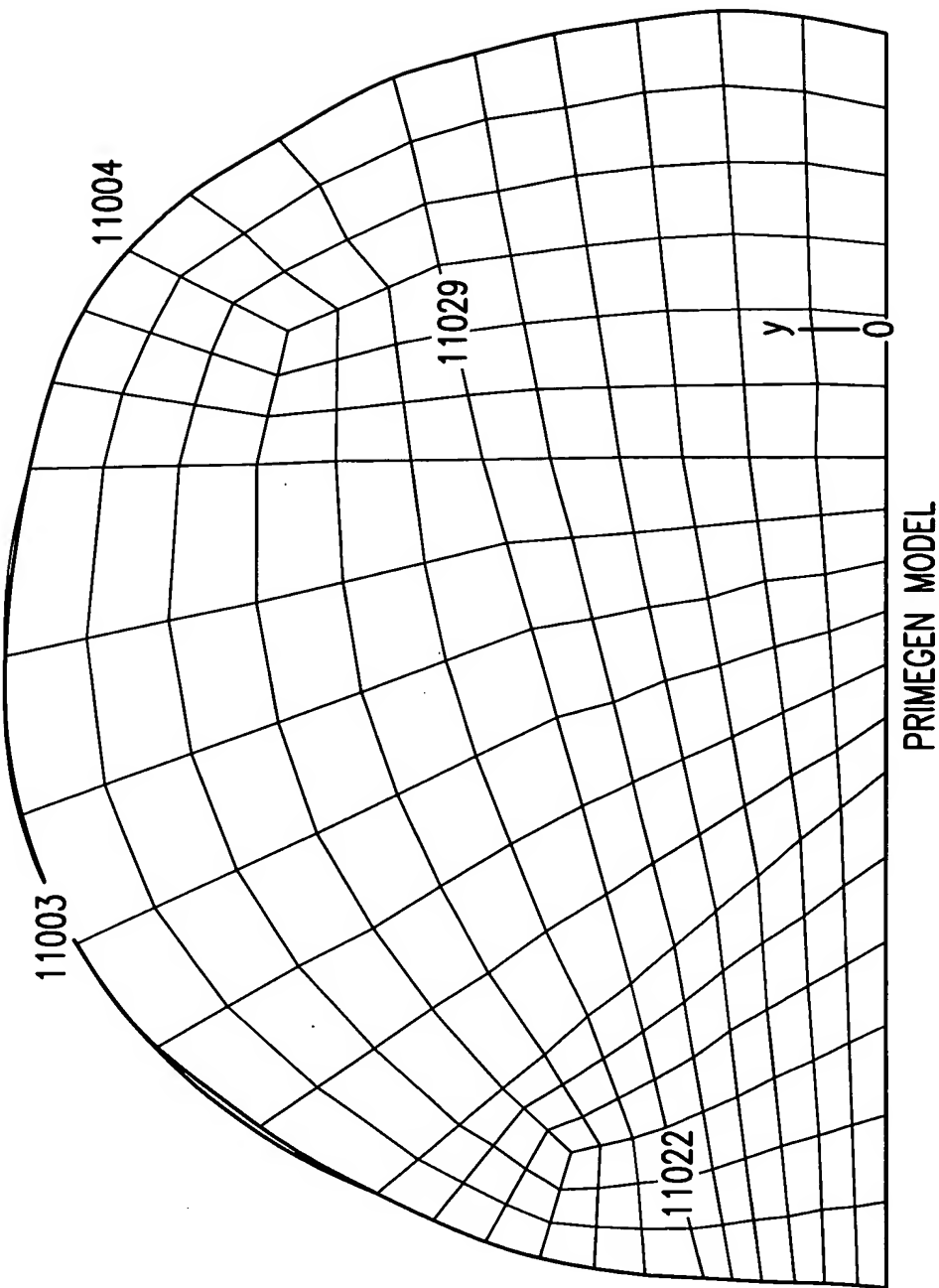


FIG.3

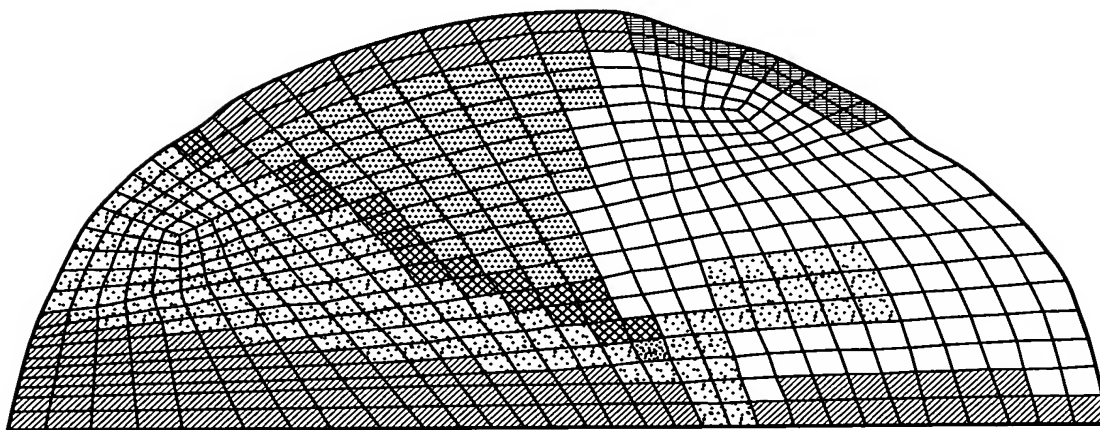
PARAMETRIC FINITE ELEMENT MODELING



CROSS SECTION; FINITE ELEMENT REGIONS

FIG.4

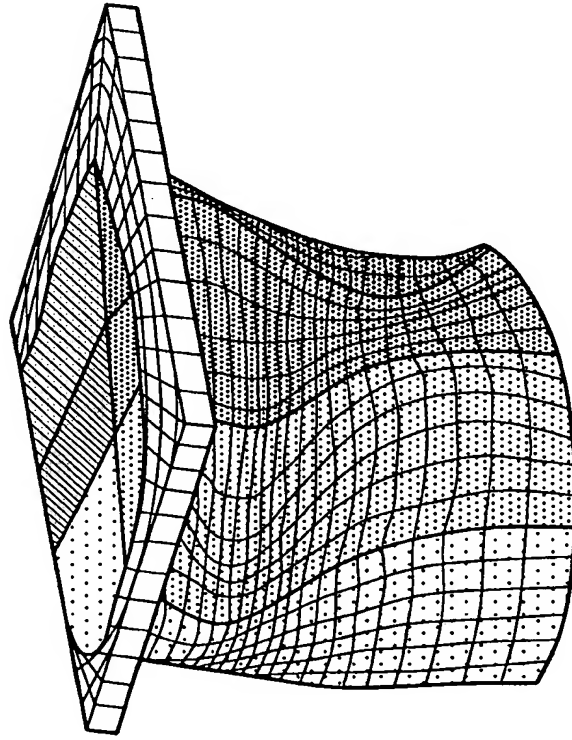
PARAMETRIC FINITE ELEMENT MODELING



SAMPLE NEUROLOGICAL FUNCTION MAP

FIG.5

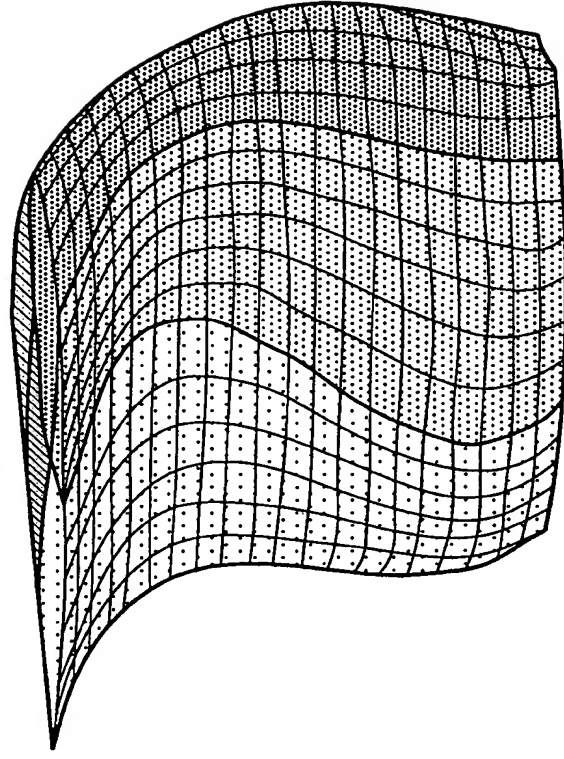
MEDULLA



PRIME EXTRUDED SPINAL VOLUMES

FIG.6A

UPPER CERVICAL



PRIME EXTRUDED SPINAL VOLUMES

FIG.6B

LOWER CERVICAL

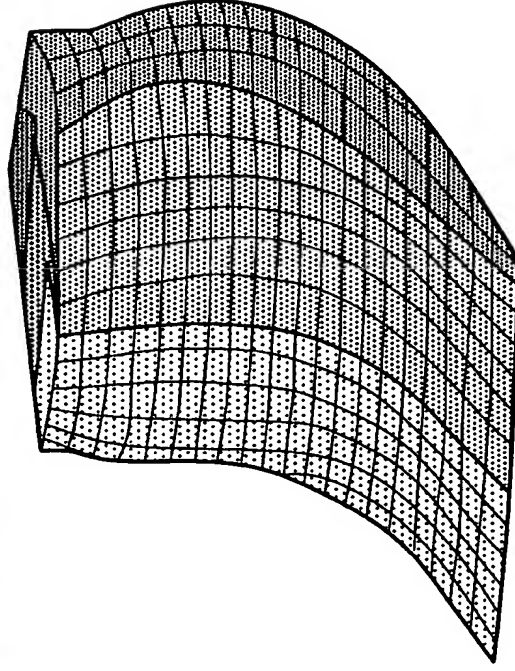


FIG.6C

UPPER THORACIC

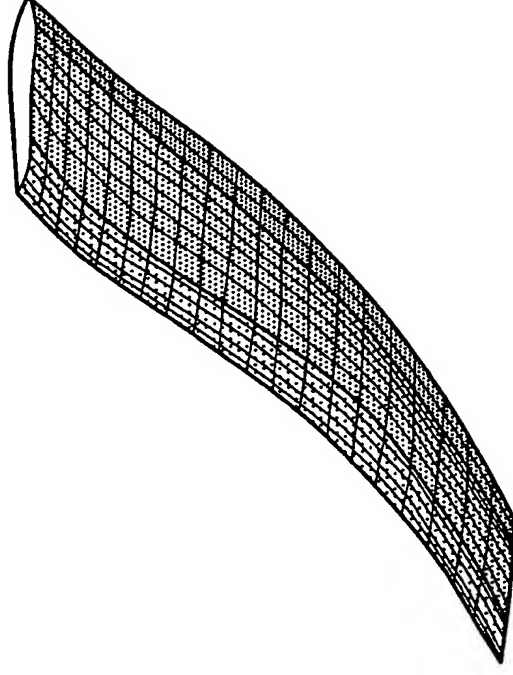
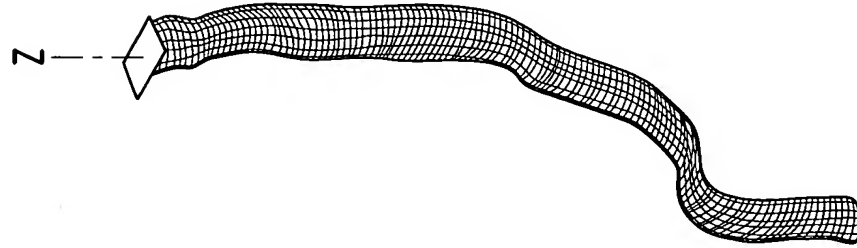


FIG.6D

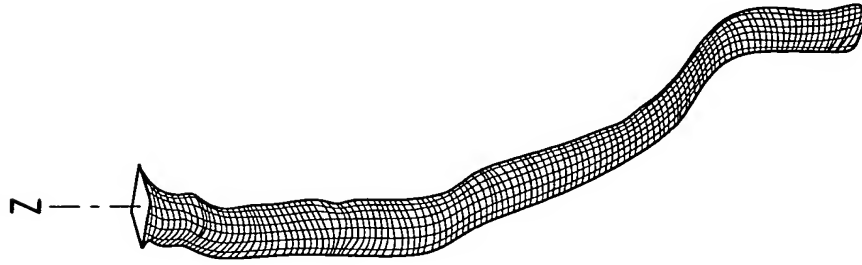
PARAMETRIC FINITE  
ELEMENT MODELING



FULL SPINAL  
CORD MODEL

FIG.7A

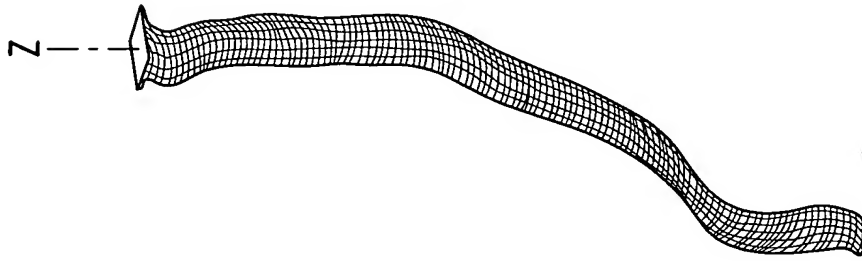
PARAMETRIC FINITE  
ELEMENT MODELING



FULL SPINAL  
CORD MODEL

FIG.7B

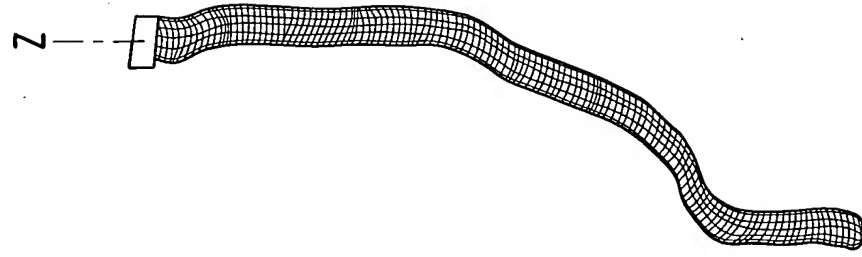
PARAMETRIC FINITE  
ELEMENT MODELING



FULL SPINAL  
CORD MODEL

FIG.7C

PARAMETRIC FINITE  
ELEMENT MODELING



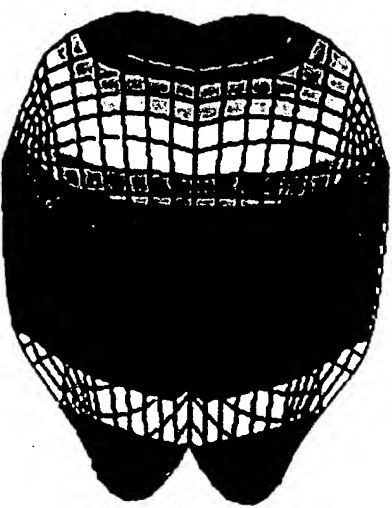
FULL SPINAL  
CORD MODEL

FIG.7D



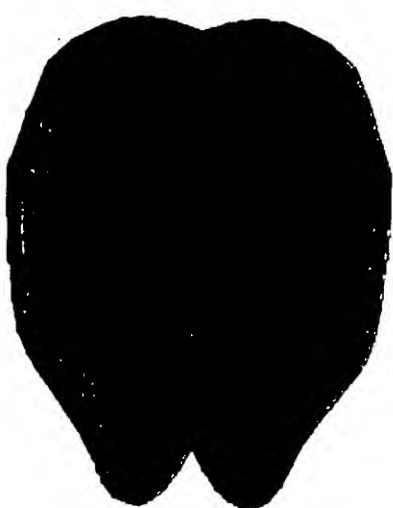
3z  
CONTOUR FILL

- -1.0000E-02
- -5.2632E-03
- -5.2632E-04
- 4.2105E-03
- 8.9474E-03
- 1.3684E-02
- 1.8421E-02
- 2.3158E-02
- 2.7895E-02
- 3.2632E-02
- 3.7368E-02
- 4.2105E-02
- 4.6842E-02
- 5.1579E-02
- 5.6316E-02
- 6.1053E-02
- 6.5789E-02
- 7.0526E-02
- 7.5263E-02
- 8.0000E-02



MEDULLA 3 (svm)

FIG. 8A



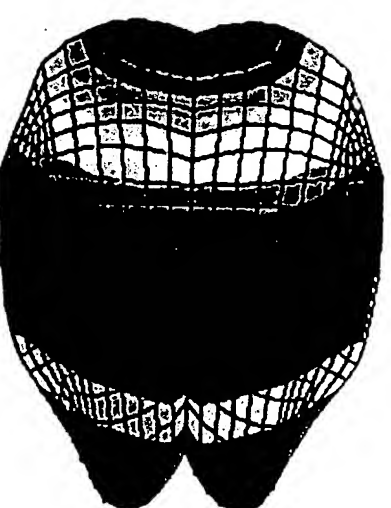
MEDULLA 3 (sx)

FIG. 8B



MEDULLA 3 (sxz)

FIG. 8C



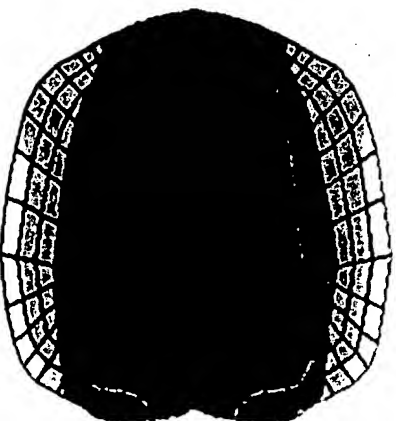
MEDULLA 3 (sz)

FIG. 8D

CONTOUR FILL

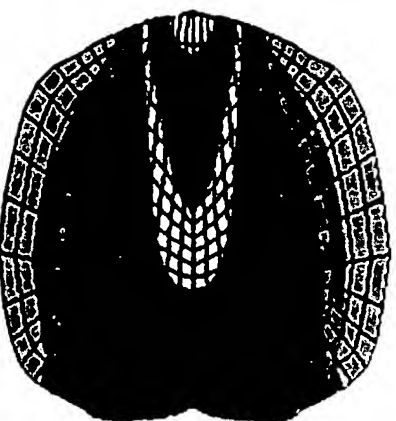
SZ

- -2.5000E-01
- -5.2474E-01
- -1.9947E-01
- -1.7421E-01
- -1.4895E-01
- -1.2368E-01
- -9.8421E-02
- -7.3158E-02
- -4.7895E-02
- -2.2632E-02
- 2.6316E-03
- 2.7895E-02
- 5.3158E-02
- 7.8421E-02
- 1.0368E-01
- 1.2895E-01
- 1.5421E-01
- 1.7947E-01
- 2.0474E-01
- 2.3000E-01



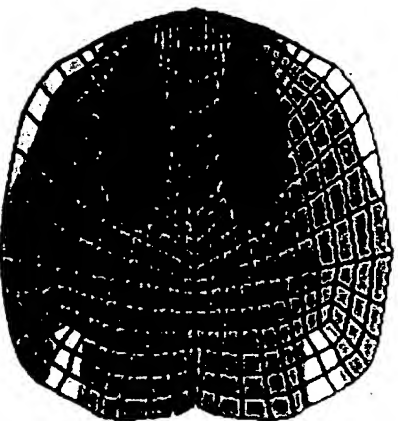
MEDULLA 3 (svm)

FIG. 9A



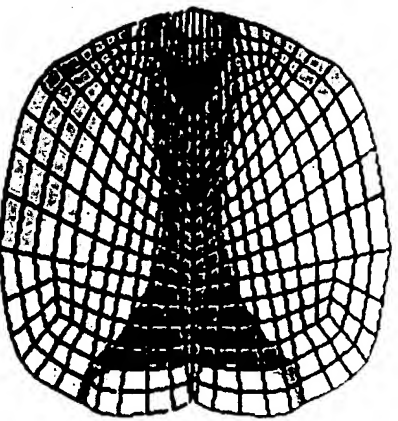
MEDULLA 3 (sx)

FIG. 9B



MEDULLA 3 (sxy)

FIG. 9C



MEDULLA 3 (sz)

FIG. 9D